PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: WO 96/11953 (11) International Publication Number: C07K 14/53, 14/555, 1/107, A61K 47/48 A1 (43) International Publication Date: 25 April 1996 (25,04,96) (21) International Application Number: PCT/US95/01729 (81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, (22) International Filing Date: 8 February 1995 (08.02.95) MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ, VN, European patent (AT, BE, CH, DE, DK, (30) Priority Data: ES, FR. GB, GR. IE, IT. LU, MC, NL, PT, SE), OAPI 08/321,510 patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, 12 October 1994 (12.10.94) US SN, TD, TG), ARIPO patent (KE, MW, SD, SZ). (71) Applicant: AMGEN INC. [US/US]; Amgen Center, 1840 Dehavilland Drive, Thousand Oaks, CA 91320-1789 (US). Published With international search report. (72) Inventors: KINSTLER, Olaf, B.; Unit A, 533 North Oaktree, Thousand Oaks, CA 91360 (US). GABRIEL, Nancy, E.; 3501 Bear Creek Court, Newbury Park, CA 91320 (US). FARRAR, Christine, E.; 667 Valley Oak Lane, Newbury Park, CA 91320 (US). DEPRINCE, Randolph, B.; 129 Hartland Court, Raleigh, NC 27614 (US). (74) Agents: ODRE, Steven, M. et al.; Amgen Inc., Amgen Center, 1840 Dehavilland Drive, Thousand Oaks, CA 91320-1789

(54) Title: N-TERMINALLY CHEMICALLY MODIFIED PROTEIN COMPOSITIONS AND METHODS

(57) Abstract

Provided herein are methods and compositions relating to the attachment of water soluble polymers to proteins. Provided are novel methods for N-terminally modifying proteins or analogs thereof, and resultant compositions, including novel N-terminally chemically modified G-CSF compositions and related methods of preparation. Also provided is chemically modified consensus interferon.

BEST AVAILABLE COPY